



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Receipt  
#69 FPL

NASA Case No.: KSC-12139-1 )  
Title: Thermodynamic Pressure/Temperature )  
Transducer Health Check )  
Inventors: Christopher D. Immer et al. )  
Filed: 11/09/2001 )  
Application No.: 09/994,990 )

Request Corrected Notice Regarding Filing Receipt

Date: APR 29 2002

Assistant Commissioner for Patents  
Attn: Office of Initial Patent Examination's  
Customer Service Center  
Washington, D.C. 20231

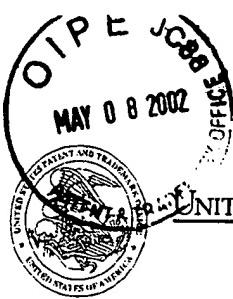
Sir:

We respectfully request that the Updated Filing Receipt, dated 03/19/2002, Confirmation No. 9113, be corrected to reflect the fifth inventor, Stanley O. Starr. We have enclosed our response to the Missing Part Notification we received December 10, 2001.

Respectfully submitted,

Randall M. Heald  
Registration No. 28,561  
National Aeronautics and  
Space Administration  
Mail Code: CC-A  
Kennedy Space Center, FL 32899  
Phone: (321) 867-7214

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ORIGINALLY FILED



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/994,990	11/09/2001	3737	1248	KSC-12139-1	7	27	6

**CONFIRMATION NO. 9113**  
**UPDATED FILING RECEIPT**



\*OC000000007658401\*

Randall M. Heald  
Patent Counsel  
National Aeronautics and Space Administration  
Mail Code: CC-A/John F. Kennedy Space Center  
Kennedy Space Center, FL 32899

Date Mailed: 03/19/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Christopher D. Immer, Merritt Island, FL;  
Anthony Eckhoff, Cocoa, FL;  
Pedro J. Medelius, Merritt Island, FL;  
Richard T. Deyoe, N.E. Palm Bay, FL;

**Domestic Priority data as claimed by applicant**

THIS APPLN CLAIMS BENEFIT OF 60/247,848 11/09/2000

**Foreign Applications****If Required, Foreign Filing License Granted 12/10/2001****Projected Publication Date:** Request for Non-Publication Acknowledged**Non-Publication Request:** Yes**Early Publication Request:** No

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**Title**

Thermodynamic pressure/temperature transducer health check

Preliminary Class

600

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

<b>Patent Application Receipt</b>	
 <p>National Aeronautics and Space Administration</p>	
<p>O P E MAY 08 2002 S C 8 PATENT &amp; TRADEMARK OFFICE</p>	
<p>NASA CASE NO. : KSC-12139-1          FILING DATE : 11/09/01          APPLICATION SERIAL NO. : 09/984,990          APPLICANT : Christopher Immer et al          TITLE : SEE BELOW</p>	<p>RECEIPT OF THE FOLLOWING PAPERS IS EVIDENCED HEREON BY THE OFFICIAL STAMP OF THE UNITED STATES PATENT AND TRADEMARK OFFICE.</p> <p>TITLE: Thermodynamic Pressure/Temperature Transducer Health          Check</p> <p>Missing Part - Transmittal of Declaration - Please charge          Deposit Account \$130.</p>

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NASA Case No.: KSC-12139-1

COPY OF PAPERS  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Christopher Immer et al )  
Serial No.: 09/984,990 )  
Filed: 11/09/2001 )  
For: Thermodynamic Pressure/ )  
Temperature Transducer Health )  
Check )

FEB 8 2002

Commissioner of Patents  
and Trademarks  
Washington, DC 20231  
ATTENTION: Box Missing Part

TRANSMITTAL OF DECLARATION

In accordance with 37 CFR 1.16 (e), attached herewith is the declaration (original plus a copy) and a copy of the PTO Formalities Letter. The surcharge payment is paid as follows:

Please charge account No. 14-0116 the sum of \$130 and charge any additional fees.

Respectfully submitted,

Randall M. Heald  
Attorney for Applicant  
Registration No. 28,561

Correspondence address:

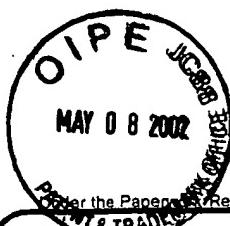
NASA, John F. Kennedy Space Center  
Mail Code: CC-A  
Office of the Chief Counsel  
Kennedy Space Center, FL 32899  
Tel. No.: (321) 867-7214

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231.

Date: 3/8/02

  
Carol Anne Dunn, Paralegal Specialist



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PTO/SB/17 (11-01)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# **FEET TRANSMITTAL for FY 2002**

*Patent fees are subject to annual revision.*

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT**

**(\\$)**

**Complete if Known**

Application Number	09/984,990
Filing Date	11/09/01
First Named Inventor	Christopher Immer
Examiner Name	Unknown
Group Art Unit	3737
Attorney Docket No.	KSC-12139-1

**METHOD OF PAYMENT (check all that apply)**

Check  Credit card  Money Order  Other  None

Deposit Account:

Deposit Account Number	14-0116
Deposit Account Name	Randy Heald

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEET CALCULATION**

**1. BASIC FILING FEE**

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
101 740	201 370	Utility filing fee	
106 330	206 165	Design filing fee	
107 510	207 255	Plant filing fee	
108 740	208 370	Reissue filing fee	
114 160	214 80	Provisional filing fee	
<b>SUBTOTAL (1) (\$)</b>			

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			-3** =	X	=

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2) (\$)</b>		

*\*\*or number previously paid, if greater; For Reissues, see above*

**3. ADDITIONAL FEES**

**Large Entity** **Small Entity**

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	\$130
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 920	217 460	Extension for reply within third month	
118 1,440	218 720	Extension for reply within fourth month	
128 1,960	228 980	Extension for reply within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,280	241 640	Petition to revive - unintentional	
142 1,280	242 640	Utility issue fee (or reissue)	
143 460	243 230	Design issue fee	
144 620	244 310	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	
Other fee (specify) _____			

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)** **130**

**SUBMITTED BY**

Name (Print/Type)	Randall M. Heald	Registration No. (Attorney/Agent)	28,561	Telephone	321-867-7214
Signature	Randall M. Heald			Date	02/08/02

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/994,990	11/09/2001	Christopher Immer	KSC-12139-1

## CONFIRMATION NO. 9113

## FORMALITIES LETTER



\*OC000000007176323\*

Randall M. Heald  
Patent Counsel  
National Aeronautics and Space Administration  
Mail Code: CC-A/John F. Kennedy Space Center  
Kennedy Space Center, FL 32899

Date Mailed: 12/10/2001

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

## FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- o The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- o To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- o The balance due by applicant is \$ 130.

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*A copy of this notice MUST be returned with the reply.*

---

*[Signature]*  
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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National  
Aeronautics and  
Space  
Administration



**COPY OF PAPERS  
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Patent Application  
KSC-12139-1  
(NASA Case No.)

**Declaration, Power of Attorney and Petition - Original Application**

As a below named inventor, I hereby declare that: My residence, mailing address and citizenship, are stated below next to my name, I believe I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**Thermodynamic Pressure/Temperature Transducer Health Check**

the specification of which  is attached hereto,  was filed on (Date) 11/09/2001  
as Application Serial No. 09/994,990 and was amended (Date) \_\_\_\_\_.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information which is known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Serial No.) , (Filing Date) , the status of which is  patented,  pending,  abandoned .

I hereby claim priority benefits under Title 35, United States Code §119(e) of any United States Provisional Applications listed below:

60/247,848 , 11/09/2000 , the status of which is pending.  
(Provisional Serial No.) , (Filing Date)

POWER OF ATTORNEY: I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Registered practitioner(s) at Customer Number \_\_\_\_\_, OR  
 Registered practitioner(s) listed below

<u>Randall M. Heald</u> (Name)	<u>28,561</u> (Reg. No.)	<u>Gary G. Borda</u> (Name)	<u>35,455</u> (Reg. No.)
<u>Alan J. Kennedy</u> (Name)	<u>28,625</u> (Reg. No.)	<u>Harry Lupuloff</u> (Name)	<u>31,117</u> (Reg. No.)
<u>Sue H. Palk</u> (Name)	<u>36,422</u> (Reg. No.)	<u>John G. Mannix</u> (Name)	<u>27,254</u> (Reg. No.)

ADDRESS ALL CORRESPONDENCE TO:

Customer Number \_\_\_\_\_, OR  
 Correspondence Address listed below:

Name: Randall M. Heald, Patent Counsel  
Address: Mail Code: CC-A/NASA  
John F. Kennedy Space Center  
Kennedy Space Center, FL 32899

DIRECT TELEPHONE CALLS TO:

Telephone (Complete number to be dialed from USPTO):  
321-867-7214

Further, as a named inventor, I certify that the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration has  an assignment in, or  license to the invention set forth in this application and has the irrevocable right to prosecute this application and to receive the patent.

Wherefore, I pray that Letters Patent be granted to me for this invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification, claims, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	LAST Immer	FIRST Christopher	MIDDLE OR INITIAL D.
RESIDENCE AND	CITY Merritt Island	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 255 S Tropical Trail, Apt #605	CITY AND STATE (OR COUNTRY) Merritt Island, FL	ZIP CODE 32952
SIGNATURE	<i>Christopher J. Immer</i>		
DATE	2/01/02		

FULL NAME OF INVENTOR	LAST Eckhoff	FIRST Anthony	MIDDLE OR INITIAL
RESIDENCE AND	CITY COCOA	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 511 Carter St.	CITY AND STATE (OR COUNTRY) Cocoa, FL	ZIP CODE 32927
SIGNATURE	<i>Anthony J. Eckhoff</i>		
DATE	02/01/02		

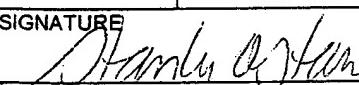
FULL NAME OF INVENTOR	LAST Medelius	FIRST Pedro	MIDDLE OR INITIAL J.
RESIDENCE AND	CITY Merritt Island	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 845 Lakewood Circle	CITY AND STATE (OR COUNTRY) Merritt Island	ZIP CODE 32952
SIGNATURE	<i>Pedro J. Medelius</i>		
DATE	2/01/02		

FULL NAME OF INVENTOR	LAST Deyoe	FIRST Richard	MIDDLE OR INITIAL T.
RESIDENCE AND	CITY N.E. Palm Bay	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 126 Goldcoast Road	CITY AND STATE (OR COUNTRY) N.E. Palm Bay, FL	ZIP CODE 32907
SIGNATURE	<i>R. Deyoe</i>		
DATE	2/01/02		

Further, as a named inventor, I certify that the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration has  an assignment in, or  license to the invention set forth in this application and has the irrevocable right to prosecute this application and to receive the patent.

Wherefore, I pray that Letters Patent be granted to me for this invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification, claims, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	LAST Starr	FIRST Stanley	MIDDLE OR INITIAL O.
RESIDENCE AND	CITY Indialantic	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 3069 Rio Bonita St.	CITY AND STATE (OR COUNTRY) Indialantic, FL	ZIP CODE 32903
SIGNATURE			DATE 2/01/02

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE